MC4200

Wireless LAN Controller

End-to-end control over the wireless LAN for your large enterprise

The MC4200 hardware controller optimizes wireless traffic across all access points and client devices to provide superior performance, reliability, and predictability in your wireless LAN. Powered by the System Director operating system, it allows you to easily control your wireless network while meeting mission-critical enterprise demands for wireless connectivity. It intelligently manages each device's connection, pooling and allocating network resources to flawlessly support a broad range of applications – including high-bandwidth applications like voice and video. The optional MC4200 10GbE Module supports your existing 10GbE infrastructure without the need to move to a larger, chassis-based controller system. The MC4200 supports the Service Assurance Application Suite to extend control and visibility over your Meru wireless LAN. It can be deployed as a physical hardware appliance or as a virtual appliance operating in a VMware environment.

Features	Benefits
• Powered by System Director operating system to govern all traffic on the wireless LAN • Airtime Fairness® allocates equal time across devices to ensure that all traffic operates at its maximum speed • Seamless integration with existing infrastructure, with support for diverse applications • Single channel architecture with ability to layer additional channels in the same physical space • Multilayered security: encryption, 802.1X authentication, firewall, rogue detection/ suppression, and wireless IPS/IDS • Optional MC4200 10GbE Module	• Controls and optimizes wireless traffic across access points and client devices • Simultaneously supports multiple high-bandwidth, resource-intensive applications, including voice and video • Delivers superior performance, scalability, and flexibility • Eliminates co-channel interference and the need for channel planning while enabling easy capacity expansion • Protects sensitive data and aids in compliance • Supports existing 10GbE infrastructure without the need to migrate to a chassis-based system

APPLICATION:	CAPACITY:	CONNECTIVITY:
• Large enterprises • Regional offices	500 access points	4x1 Gigabit Ethernet, or Optional 2x10 Gigabit Ethernet Module

For more information about the MC4200, visit **www.merunetworks.com**

MC4200

TECHNICAL SPECIFICATIONS

APPLICATION SUPPORT AND OVER-THE-AIR QoS

SIP and H.323 support
Dynamic out-of-the-box support for SIP and H.323 applications and codecs

QoS
Configurable QoS rules for SIP, H.323, Ascom, Avaya, Microsoft, Polycom, Siemens, and ShoreTel
User-configurable static and dynamic QoS rules per application (user-defined) and per user (stations, users, and port numbers)
Call admissions control and call load balancing
WMM support
WMM rate adaptation, optimized based on real-time network conditions

SECURITY

Authentication
Combination of captive portal, 802.1X, and open authentication
Advanced security using WPA2
802.1X with EAP-Transport Layer Security (EAP-TLS), Tunneled TLS (EAP-TTLS), Protected EAP (PEAP), MS-CHAPv2, Smartcard/Certificate, Lightweight EAP (LEAP), EAP-FAST, and EAP-MD5, with mutual authentication and dynamic per-user, per-session unicast and broadcast keys
Secure HTTPS with customizable captive portal utilizing RADIUS

Encryption Support
Static and dynamic 40-bit and 128-bit WEP keys, TKIP with MIC, AES, SSL, TLS

Security Policy
Radius-assisted, per-user and per-ESSID access control via MAC filtering
Multiple ESSID/BSSID, each with flexibility of separate and shared security policy

Rogue Detection and Suppression
All controllers have the intelligence to identify and classify rogue devices in 802.11n, 802.11a, and 802.11b/g

Security Firewall
Per-user firewall with fine-grained policy management: admission control, packet prioritization, QoS flows, packet drop policy, bandwidth scaling, filter ID, network protocol, and source port filtering
System-configured or per-user, RADIUS-configured firewall policy

MOBILITY

Zero-Loss Handoffs
Infrastructure-controlled, zero-loss handoff mechanism for standard Wi-Fi clients

Virtual Cell Load Balancing
Virtual Cell provides load balancing coordination for improved performance and WLAN resiliency upon AP failure

CENTRALIZED MANAGEMENT

Zero Configuration
Automatically selects power and channel settings
Access points automatically discover controllers and download configuration settings
Zero-touch, plug-and-play deployments

System Management
Centralized and remote management and software upgrades via System Director web-based GUI, SNMP, command-line interface (CLI) via serial port, SSH, Telnet, centrally managed via E(z)RF™ Network Manager
Centralized security policy for WLAN, multiple ESSIDs, and VLANs with their own administrative/security policies

Intelligent RF Management
Coordination of access points with load balancing for predictable performance
Centralized auto-discovery, auto-channel configuration, and auto-power selection for APs
Co-channel interference management

WIRED/WIRELESS SUPPORT

Wireless Compliance
IEEE 802.11 a/b/g/n, IEEE 802.11i support (AES, WEP, WPA, WPA2), IEEE 802.11e, WMM

Automatic Discovery & Configuration
All Meru access points

Wired/Switching
IEEE 802.1Q VLAN tagging, GRE Tunneling, and IEEE 802.1D Spanning Tree Protocol

PHYSICAL SPECIFICATIONS

Dimensions
16.97" width x 1.74" height x 16.49" depth
(43.1 cm width x 4.45 cm height x 41.88 cm depth)

Weight
16 lbs / 7.3 kgs (without packaging)
25.4 lbs / 11.5 kgs (with packaging)

Power
Dual Hot Swappable 275W PSU

Environmental
Operating temperature: 0° to 40° C (32° F to 104° F)
Operating humidity: 95% at 40° C (104° F)
Storage temperature: -40° to 85° C (-40° F to 185° F)
Storage humidity: 95% at 40° C (104° F)

Interfaces
4 10/100/1000 Base-T Ethernet
Optional 2x 10 Gigabit Ethernet
RJ45 console port
2 x USB port
Power on/off switch
Ethernet port status lights (LED) for link/activity/speed

Access Point and Client Support
500 APs and 5,000 Wi-Fi clients

Mounting
1U rack mount

Standard Warranty
1 year

Certifications

RoHS Compliant
Wi-Fi Certified a/b/g/n

Safety Standards

UL 60950-1
IEC 60950-1

EMC

FCC Part 15/ICES-003 Class A
VCCI Class A – Japan
EN 55022 Class A – Europe
EN 55024 – Europe
EN60601-1 – Europe
EN60601-1-2 – Europe
KCC – Korea

Part Numbers

MC4200 Wireless controller with zero access point licenses
MC4200-125 Wireless controller with 125 AP licenses
MC4200-SD-10G License to run 10GbE hardware option on an MC4200
MC4200-PEF Policy Enforcement Module for MC4200 controller
MC4200RN-1-MAX Software module to upgrade N+1 slave wireless controller for N=1
MC4200RN-5-MAX Software module to upgrade N+1 slave wireless controller for N<=5

Other Controllers from Meru:

MC1500
Small-to-medium enterprises and remote offices
30 access points

MC3200
Medium enterprises and branch offices
200 access points

MC5000
Large enterprises, headquarters, large campuses
1,500 access points

Meru delivers an all-wireless network that fully supports the enterprise, delivering a consistent, interactive experience for all users. No matter what applications they are running. No matter how many other users are on the network.

For more information about the Meru MC4200, visit www.merunetworks.com or email your questions to: **meruinfo@merunetworks.com**

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